

Milo Shaffer

List of Publications by Year in descending order

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275
papers

24,941
citations

8230

76
h-index

7567

151
g-index

283
all docs

283
docs citations

283
times ranked

24733
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low electrical percolation threshold in carbon-nanotube-epoxy composites. <i>Polymer</i> , 2003, 44, 5893-5899.	3.9	1,540
2	Development of a dispersion process for carbon nanotubes in an epoxy matrix and the resulting electrical properties. <i>Polymer</i> , 1999, 40, 5967-5971.	3.9	1,339
3	Fabrication and Characterization of Carbon Nanotube/Poly(vinyl alcohol) Composites. <i>Advanced Materials</i> , 1999, 11, 937-941.	21.5	1,143
4	Work Functions and Surface Functional Groups of Multiwall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8116-8121.	2.7	910
5	Composites of Carbon Nanotubes and Conjugated Polymers for Photovoltaic Devices. <i>Advanced Materials</i> , 1999, 11, 1281-1285.	21.5	674
6	Carbon nanotube-based hierarchical composites: a review. <i>Journal of Materials Chemistry</i> , 2010, 20, 4751.	6.7	643
7	Solvent Exfoliation of Transition Metal Dichalcogenides: Dispersibility of Exfoliated Nanosheets Varies Only Weakly between Compounds. <i>ACS Nano</i> , 2012, 6, 3468-3480.	14.9	625
8	Electrophoretic deposition of carbon nanotubes. <i>Carbon</i> , 2006, 44, 3149-3160.	10.4	624
9	Dispersion and packing of carbon nanotubes. <i>Carbon</i> , 1998, 36, 1603-1612.	10.4	615
10	Formation of percolating networks in multi-wall carbon-nanotube-epoxy composites. <i>Composites Science and Technology</i> , 2004, 64, 2309-2316.	7.9	571
11	Electrochemical Capacitance of a Nanoporous Composite of Carbon Nanotubes and Polypyrrole. <i>Chemistry of Materials</i> , 2002, 14, 1610-1613.	6.9	554
12	Carbon Nanotube and Polypyrrole Composites: Coating and Doping. <i>Advanced Materials</i> , 2000, 12, 522-526.	21.5	529
13	Electric field-induced aligned multi-wall carbon nanotube networks in epoxy composites. <i>Polymer</i> , 2005, 46, 877-886.	3.9	490
14	Production of controlled architectures of aligned carbon nanotubes by an injection chemical vapour deposition method. <i>Carbon</i> , 2003, 41, 359-368.	10.4	422
15	Ceramic matrix composites containing carbon nanotubes. <i>Journal of Materials Science</i> , 2009, 44, 1934-1951.	3.7	339
16	Collapse of Single-Wall Carbon Nanotubes is Diameter Dependent. <i>Physical Review Letters</i> , 2004, 92, 095501.	7.9	328
17	Hierarchical Composites Reinforced with Carbon Nanotube Grafted Fibers: The Potential Assessed at the Single Fiber Level. <i>Chemistry of Materials</i> , 2008, 20, 1862-1869.	6.9	312
18	Electrochemical Capacitance of Nanocomposite Films Formed by Coating Aligned Arrays of Carbon Nanotubes with Polypyrrole. <i>Advanced Materials</i> , 2002, 14, 382.	21.5	303

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19	Carbon-nanofibre-reinforced poly(ether ether ketone) composites. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1033-1039.	7.7	296
20	A comparative study of melt spun polyamide-12 fibres reinforced with carbon nanotubes and nanofibres. Polymer, 2004, 45, 2001-2015.	3.9	293
21	Enhanced acoustic damping in flexible polyurethane foams filled with carbon nanotubes. Composites Science and Technology, 2009, 69, 1564-1569.	7.9	272
22	Applications of Graphene Electrophoretic Deposition. A Review. Journal of Physical Chemistry B, 2013, 117, 1502-1515.	2.7	246
23	Surface Modification of Natural Fibers Using Bacteria: Depositing Bacterial Cellulose onto Natural Fibers To Create Hierarchical Fiber Reinforced Nanocomposites. Biomacromolecules, 2008, 9, 1643-1651.	5.5	226
24	High internal phase emulsion templates solely stabilised by functionalised titania nanoparticles. Chemical Communications, 2007, , 4274.	4.2	218
25	Electrophoretic deposition of graphene-related materials: A review of the fundamentals. Progress in Materials Science, 2016, 82, 83-117.	33.1	210
26	Multifunctional Structural Supercapacitor Composites Based on Carbon Aerogel Modified High Performance Carbon Fiber Fabric. ACS Applied Materials & Interfaces, 2013, 5, 6113-6122.	8.2	209
27	Graphene Oxide as Support for Layered Double Hydroxides: Enhancing the CO ₂ Adsorption Capacity. Chemistry of Materials, 2012, 24, 4531-4539.	6.9	205
28	Carbon nanotube grafted carbon fibres: A study of wetting and fibre fragmentation. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1107-1114.	7.7	204
29	Polystyrene grafted multi-walled carbon nanotubes. Chemical Communications, 2002, , 2074-2075.	4.2	187
30	Charged Carbon Nanomaterials: Redox Chemistries of Fullerenes, Carbon Nanotubes, and Graphenes. Chemical Reviews, 2018, 118, 7363-7408.	49.1	182
31	Removal of oxidation debris from multi-walled carbon nanotubes. Chemical Communications, 2007, , 513-515.	4.2	179
32	Particle-Stabilized Surfactant-Free Medium Internal Phase Emulsions as Templates for Porous Nanocomposite Materials: A poly-Pickering-Foams. Langmuir, 2007, 23, 2398-2403.	3.6	169
33	Electrochemical fabrication and capacitance of composite films of carbon nanotubes and polyaniline. Journal of Materials Chemistry, 2005, 15, 2297.	6.7	167
34	Multi-Walled Carbon Nanotube Coatings Using Electrophoretic Deposition (EPD). Journal of the American Ceramic Society, 2005, 88, 980-982.	3.8	156
35	PdIn intermetallic nanoparticles for the Hydrogenation of CO ₂ to Methanol. Applied Catalysis B: Environmental, 2018, 220, 9-18.	20.5	153
36	Optical microstructure and viscosity enhancement for an epoxy resin matrix containing multiwall carbon nanotubes. Journal of Rheology, 2006, 50, 599-610.	2.7	149

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37	Multimaterial 3D Printing of Graphene-Based Electrodes for Electrochemical Energy Storage Using Thermoresponsive Inks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37136-37145.	8.2	148
38	Structural supercapacitor electrolytes based on bicontinuous ionic liquid-epoxy resin systems. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15300.	10.4	143
39	Hybrid Solar Cells from a Blend of Poly(3-hexylthiophene) and Ligand-Capped TiO ₂ Nanorods. <i>Advanced Functional Materials</i> , 2008, 18, 622-633.	15.1	141
40	Rheology and properties of melt-processed poly(ether ether ketone)/multi-wall carbon nanotube composites. <i>Polymer</i> , 2009, 50, 5803-5811.	3.9	133
41	Electronic interaction between photoexcited poly(p-phenylene vinylene) and carbon nanotubes. <i>Physical Review B</i> , 2000, 61, 2286-2290.	3.2	129
42	Unweaving the rainbow: a review of the relationship between single-walled carbon nanotube molecular structures and their chemical reactivity. <i>Chemical Society Reviews</i> , 2012, 41, 4409.	39.2	129
43	Variations in the Raman peak shift as a function of hydrostatic pressure for various carbon nanostructures: A simple geometric effect. <i>Physical Review B</i> , 2003, 67, .	3.2	128
44	The Electrophoretic Deposition of Inorganic Nanoscaled Materials-A Review-. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 1-14.	1.3	128
45	Characterisation of carbon nanotube films deposited by electrophoretic deposition. <i>Carbon</i> , 2009, 47, 58-67.	10.4	125
46	Tribological behaviour of carbon-nanofibre-reinforced poly(ether ether ketone). <i>Wear</i> , 2004, 257, 1006-1014.	3.2	124
47	Creating Hierarchical Structures in Renewable Composites by Attaching Bacterial Cellulose onto Sisal Fibers. <i>Advanced Materials</i> , 2008, 20, 3122-3126.	21.5	121
48	Towards the production of large-scale aligned carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 372, 860-865.	2.6	114
49	Silver nanoparticles reduce brain inflammation and related neurotoxicity through induction of H2S-synthesizing enzymes. <i>Scientific Reports</i> , 2017, 7, 42871.	3.4	110
50	Multifunctional structural energy storage composite supercapacitors. <i>Faraday Discussions</i> , 2014, 172, 81-103.	3.3	109
51	Analogies between Polymer Solutions and Carbon Nanotube Dispersions. <i>Macromolecules</i> , 1999, 32, 6864-6866.	4.9	105
52	Strong and Stiff: High-Performance Cellulose Nanocrystal/Poly(vinyl alcohol) Composite Fibers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31500-31504.	8.2	101
53	The Stability of Silver Nanoparticles in a Model of Pulmonary Surfactant. <i>Environmental Science & Technology</i> , 2013, 47, 11232-11240.	10.1	99
54	Joule Heating Characteristics of Emulsion-templated Graphene Aerogels. <i>Advanced Functional Materials</i> , 2015, 25, 28-35.	15.1	99

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55	Carbon nanotube grafted silica fibres: Characterising the interface at the single fibre level. <i>Composites Science and Technology</i> , 2010, 70, 393-399.	7.9	98
56	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. <i>Electrochimica Acta</i> , 2016, 222, 44-57.	5.3	97
57	Carbon Nanofibers Allow Foaming of Semicrystalline Poly(ether ether ketone). <i>Advanced Materials</i> , 2005, 17, 2864-2869.	21.5	95
58	Carbon nanotube-enhanced polyurethane scaffolds fabricated by thermally induced phase separation. <i>Journal of Materials Chemistry</i> , 2008, 18, 1865.	6.7	95
59	Purification of single walled carbon nanotubes: The problem with oxidation debris. <i>Chemical Physics Letters</i> , 2008, 460, 162-167.	2.6	94
60	Dual-Mechanism Antimicrobial Polymer-ZnO Nanoparticle and Crystal Violet-Encapsulated Silicone. <i>Advanced Functional Materials</i> , 2015, 25, 1367-1373.	15.1	94
61	Impact of Hydrothermal Processing Conditions on High Aspect Ratio Titanate Nanostructures. <i>Chemistry of Materials</i> , 2006, 18, 6059-6068.	6.9	93
62	Layered double hydroxides supported on multi-walled carbon nanotubes: preparation and CO ₂ adsorption characteristics. <i>Journal of Materials Chemistry</i> , 2012, 22, 13932.	6.7	92
63	Crystallization of Carbon Nanotube and Nanofiber Polypropylene Composites. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 479-488.	1.0	88
64	Accelerated synthesis of titanium oxide nanostructures using microfluidic chips. <i>Lab on A Chip</i> , 2007, 7, 167-169.	6.0	88
65	Carbon nanotube stabilised emulsions for electrochemical synthesis of porous nanocomposite coatings of poly[3,4-ethylene-dioxythiophene]. <i>Chemical Communications</i> , 2006, , 4629.	4.2	86
66	Hierarchically porous carbon foams from pickering high internal phase emulsions. <i>Carbon</i> , 2016, 101, 253-260.	10.4	86
67	Nanocellulose enhanced interfaces in truly green unidirectional fibre reinforced composites. <i>Composite Interfaces</i> , 2007, 14, 753-762.	2.3	83
68	Carbon fibre reinforced poly(vinylidene fluoride): Impact of matrix modification on fibre/polymer adhesion. <i>Composites Science and Technology</i> , 2008, 68, 1766-1776.	7.9	83
69	Carbon-nanofibre-reinforced poly(ether ether ketone) fibres. <i>Journal of Materials Science</i> , 2003, 38, 2135-2141.	3.7	81
70	Synthesis of single-walled carbon nanotubes by a fluidized-bed method. <i>Chemical Physics Letters</i> , 2004, 384, 98-102.	2.6	81
71	Scalable Method for the Reductive Dissolution, Purification, and Separation of Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 54-62.	14.9	81
72	Activation of structural carbon fibres for potential applications in multifunctional structural supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2013, 395, 241-248.	9.5	81

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73	Thermal oxidative cutting of multi-walled carbon nanotubes. Carbon, 2007, 45, 2341-2350.	10.4	78
74	Graphene oxide/mixed metal oxide hybrid materials for enhanced adsorption desulfurization of liquid hydrocarbon fuels. Fuel, 2016, 181, 531-536.	6.5	78
75	Pd ₂ Ga-Based Colloids as Highly Active Catalysts for the Hydrogenation of CO ₂ to Methanol. ACS Catalysis, 2017, 7, 1186-1196.	11.4	78
76	Exploring cellular behaviour with multi-walled carbon nanotube constructs. Journal of Materials Chemistry, 2007, 17, 1894.	6.7	77
77	Studies of deposition of and charge storage in polypyrrole-chloride and polypyrrole-carbon nanotube composites with an electrochemical quartz crystal microbalance. Journal of Electroanalytical Chemistry, 2004, 568, 135-142.	3.9	76
78	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	9.3	76
79	Mechanistic link between diesel exhaust particles and respiratory reflexes. Journal of Allergy and Clinical Immunology, 2018, 141, 1074-1084.e9.	2.9	75
80	Production of aligned carbon nanotubes by the CVD injection method. Physica B: Condensed Matter, 2002, 323, 339-340.	2.7	73
81	En route to controlled catalytic CVD synthesis of densely packed and vertically aligned nitrogen-doped carbon nanotube arrays. Beilstein Journal of Nanotechnology, 2014, 5, 219-233.	2.9	73
82	Multiblock Polyesters Demonstrating High Elasticity and Shape Memory Effects. Macromolecules, 2018, 51, 2466-2475.	4.9	71
83	Encapsulation and Polymerization of White Phosphorus Inside Single-Wall Carbon Nanotubes. Angewandte Chemie - International Edition, 2017, 56, 8144-8148.	14.2	70
84	Carbon foams from emulsion-templated reduced graphene oxide polymer composites: electrodes for supercapacitor devices. Journal of Materials Chemistry A, 2018, 6, 1840-1849.	10.4	70
85	Enhanced fracture toughness of hierarchical carbon nanotube reinforced carbon fibre epoxy composites with engineered matrix microstructure. Composites Science and Technology, 2019, 170, 85-92.	7.9	70
86	Mechanical, electrical and microstructural characterisation of multifunctional structural power composites. Journal of Composite Materials, 2015, 49, 1823-1834.	2.4	69
87	Controlling the nanostructure of electrochemically grown nanoporous composites of carbon nanotubes and conducting polymers. Composites Science and Technology, 2004, 64, 2325-2331.	7.9	68
88	Synthesis of Pure Phosphorus Nanostructures. Angewandte Chemie - International Edition, 2009, 48, 3616-3621.	14.2	65
89	Synthesis of high purity single-walled carbon nanotubes in high yield. Chemical Communications, 2002, , 2666-2667.	4.2	64
90	Direct Measurement of the Wetting Behavior of Individual Carbon Nanotubes by Polymer Melts: The Key to Carbon Nanotube-Polymer Composites. Nano Letters, 2008, 8, 2744-2750.	9.3	64

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91	Synthesis and characterisation of carbon nanotubes grown on silica fibres by injection CVD. Carbon, 2010, 48, 277-286.	10.4	61
92	Structure and Morphology of Charged Graphene Platelets in Solution by Small-Angle Neutron Scattering. Journal of the American Chemical Society, 2012, 134, 8302-8305.	14.2	60
93	Composition as a Means To Control Morphology and Properties of Epoxy Based Dual-Phase Structural Electrolytes. Journal of Physical Chemistry C, 2014, 118, 28377-28387.	3.2	60
94	Bioactive ceramic coatings containing carbon nanotubes on metallic substrates by electrophoretic deposition. Journal of Materials Science, 2006, 41, 8144-8151.	3.7	59
95	Carbon nanotubes: do they toughen brittle matrices?. Journal of Materials Science, 2011, 46, 4770-4779.	3.7	59
96	Three-Dimensional Internal Order in Multiwalled Carbon Nanotubes Grown by Chemical Vapor Deposition. Advanced Materials, 2005, 17, 760-763.	21.5	58
97	Mesoscale modeling of electrical percolation in fiber-filled systems. Journal of Chemical Physics, 2005, 123, 134702.	3.1	58
98	<i>Grafting from</i> versus <i>Grafting to</i> Approaches for the Functionalization of Graphene Nanoplatelets with Poly(methyl methacrylate). Macromolecules, 2017, 50, 7070-7079.	4.9	58
99	Reactive polyurethane carbon nanotube foams and their interactions with osteoblasts. Journal of Biomedical Materials Research - Part A, 2009, 88A, 65-73.	4.1	57
100	Sulfidation of silver nanowires inside human alveolar epithelial cells: a potential detoxification mechanism. Nanoscale, 2013, 5, 9839.	5.7	56
101	Nanocomposite foams obtained by polymerization of high internal phase emulsions. Journal of Polymer Science Part A, 2008, 46, 5708-5714.	2.3	55
102	Multimetallic Microparticles Increase the Potency of Rifampicin against Intracellular <i>Mycobacterium tuberculosis</i>. ACS Nano, 2018, 12, 5228-5240.	14.9	53
103	Inverse Gas Chromatography of As-Received and Modified Carbon Nanotubes. Langmuir, 2009, 25, 8340-8348.	3.6	52
104	“Brick-and-Mortar” Nanostructured Interphase for Glass-Fiber-Reinforced Polymer Composites. ACS Applied Materials & Interfaces, 2018, 10, 7352-7361.	8.2	52
105	Electrophoretic deposition of carbon nanotubes: recent progress and remaining challenges. International Materials Reviews, 2021, 66, 533-562.	19.5	52
106	Silylation of multi-walled carbon nanotubes. Chemical Physics Letters, 2003, 368, 121-124.	2.6	50
107	Carbon nanotube “nanocrystal heterostructures fabricated by electrophoretic deposition. Nanotechnology, 2008, 19, 195301.	2.6	50
108	Sonochemical degradation of N-methylpyrrolidone and its influence on single walled carbon nanotube dispersion. Chemical Communications, 2015, 51, 16621-16624.	4.2	50

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109	Modelling percolation in fibre and sphere mixtures: Routes to more efficient network formation. <i>Composites Science and Technology</i> , 2010, 70, 356-362.	7.9	48
110	Carbon fibre-reinforced poly(ethylene glycol) diglycidylether based multifunctional structural supercapacitor composites for electrical energy storage applications. <i>Journal of Composite Materials</i> , 2016, 50, 2155-2163.	2.4	48
111	Phosphinate stabilised ZnO and Cu colloidal nanocatalysts for CO ₂ hydrogenation to methanol. <i>Chemical Communications</i> , 2013, 49, 11074.	4.2	47
112	Hybrid effects in graphene oxide/carbon nanotube-supported layered double hydroxides: enhancing the CO ₂ sorption properties. <i>Carbon</i> , 2017, 123, 616-627.	10.4	47
113	Continuous carbon nanotube synthesis on charged carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 112, 525-538.	7.7	47
114	Crystallographic Order in Multi-Walled Carbon Nanotubes Synthesized in the Presence of Nitrogen. <i>Small</i> , 2006, 2, 774-784.	10.2	44
115	Rheological and electrical percolation in melt-processed poly(ether ether ketone)/multi-wall carbon nanotube composites. <i>Chemical Physics Letters</i> , 2009, 482, 105-109.	2.6	44
116	From Organometallic Zinc and Copper Complexes to Highly Active Colloidal Catalysts for the Conversion of CO ₂ to Methanol. <i>ACS Catalysis</i> , 2015, 5, 2895-2902.	11.4	42
117	A one-step route to solubilised, purified or functionalised single-walled carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16708-16715.	10.4	42
118	Mapping local microstructure and mechanical performance around carbon nanotube grafted silica fibres: Methodologies for hierarchical composites. <i>Nanoscale</i> , 2011, 3, 4759.	5.7	41
119	Infiltration of highly aligned carbon nanotube arrays with molten polystyrene. <i>Materials Letters</i> , 2011, 65, 2299-2303.	2.6	41
120	Determining the Morphology and Photocatalytic Activity of Two-Dimensional Anatase Nanoplatelets Using Reagent Stoichiometry. <i>Chemistry of Materials</i> , 2013, 25, 2137-2145.	6.9	41
121	Enhancing the Antibacterial Activity of Light-Activated Surfaces Containing Crystal Violet and ZnO Nanoparticles: Investigation of Nanoparticle Size, Capping Ligand, and Dopants. <i>ACS Omega</i> , 2016, 1, 334-343.	3.6	41
122	Systematic comparison of conventional and reductive single-walled carbon nanotube purifications. <i>Carbon</i> , 2016, 108, 423-432.	10.4	41
123	Reversible Redox Cycling of Well-Defined, Ultrasmall Cu/Cu ₂ O Nanoparticles. <i>ACS Nano</i> , 2017, 11, 2714-2723.	14.9	41
124	Aqueous cationic, anionic and non-ionic multi-walled carbon nanotubes, functionalised with minimal framework damage, for biomedical application. <i>Biomaterials</i> , 2014, 35, 4729-4738.	11.6	40
125	Reductively PEGylated carbon nanomaterials and their use to nucleate 3D protein crystals: a comparison of dimensionality. <i>Chemical Science</i> , 2016, 7, 2916-2923.	7.6	40
126	Mononuclear Phenolate Diamine Zinc Hydride Complexes and Their Reactions With CO ₂ . <i>Organometallics</i> , 2014, 33, 1112-1119.	2.5	39

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127	Brominated graphene as a versatile precursor for multifunctional grafting. <i>Chemical Science</i> , 2018, 9, 209-217.	7.6	39
128	Organometallic Route to Surface-Modified ZnO Nanoparticles Suitable for In Situ Nanocomposite Synthesis: Bound Carboxylate Stoichiometry Controls Particle Size or Surface Coverage. <i>Chemistry of Materials</i> , 2012, 24, 2443-2448.	6.9	38
129	Improving the multifunctional behaviour of structural supercapacitors by incorporating chemically activated carbon fibres and mesoporous silica particles as reinforcement. <i>Journal of Composite Materials</i> , 2018, 52, 3085-3097.	2.4	38
130	Increasing carbon fiber composite strength with a nanostructured "brick-and-mortar" interphase. <i>Materials Horizons</i> , 2018, 5, 668-674.	12.4	38
131	Thermosetting hierarchical composites with high carbon nanotube loadings: En route to high performance. <i>Composites Science and Technology</i> , 2016, 127, 134-141.	7.9	37
132	Carbon Nanotube/Nanofibre Polymer Composites. , 2006, , 1-59.		36
133	A versatile, solvent-free methodology for the functionalisation of carbon nanotubes. <i>Chemical Science</i> , 2010, 1, 603.	7.6	36
134	ELECTROCHEMICAL INVESTIGATION OF THE FORMATION OF CARBON NANOTUBES IN MOLTEN SALTS. <i>High Temperature Material Processes</i> , 1998, 2, 459-469.	0.6	35
135	Optimised exfoliation conditions enhance isolation and solubility of grafted graphenes from graphite intercalation compounds. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15022.	10.4	35
136	Mapping carbon nanotube orientation by fast fourier transform of scanning electron micrographs. <i>Carbon</i> , 2018, 137, 78-87.	10.4	35
137	MBE growth and morphology control of ZnO nanobelts with polar axis perpendicular to growth direction. <i>Materials Letters</i> , 2018, 212, 51-53.	2.6	35
138	Fast Exfoliation and Functionalisation of Two-Dimensional Crystalline Carbon Nitride by Framework Charging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12656-12660.	14.2	35
139	Sol-gel route to carbon nanotube borosilicate glass composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 837-845.	7.7	34
140	Adsorption of carbon dioxide on graphene oxide supported layered double oxides. <i>Adsorption</i> , 2014, 20, 321-330.	3.0	34
141	Electrophoretic Deposition of Carbon Nanotubes on Metallic Surfaces. <i>Key Engineering Materials</i> , 2006, 314, 141-146.	0.3	33
142	Manufacturing Carbon Nanotube/PVDF Nanocomposite Powders. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 188-193.	3.6	33
143	Pentanuclear Complexes for a Series of Alkylzinc Carboxylates. <i>Organometallics</i> , 2009, 28, 5828-5832.	2.5	33
144	High-Resolution Analytical Electron Microscopy Reveals Cell Culture Media-Induced Changes to the Chemistry of Silver Nanowires. <i>Environmental Science & Technology</i> , 2013, 47, 13813-13821.	10.1	33

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145	Cross-linked single-walled carbon nanotube aerogel electrodes via reductive coupling chemistry. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5385-5389.	10.4	33
146	Silver nanowire interactions with primary human alveolar type-II epithelial cell secretions: contrasting bioreactivity with human alveolar type-I and type-II epithelial cells. <i>Nanoscale</i> , 2015, 7, 10398-10409.	5.7	31
147	Simple phosphinate ligands access zinc clusters identified in the synthesis of zinc oxide nanoparticles. <i>Nature Communications</i> , 2016, 7, 13008.	13.0	31
148	Contamination of holey/lacey carbon films in STEM. <i>Micron</i> , 2012, 43, 450-455.	2.2	30
149	High resolution and dynamic imaging of biopersistence and bioreactivity of extra and intracellular MWNTs exposed to microglial cells. <i>Biomaterials</i> , 2015, 70, 57-70.	11.6	30
150	Pulmonary surfactant mitigates silver nanoparticle toxicity in human alveolar type-I-like epithelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 167-175.	5.1	30
151	Quantification of blood-brain barrier transport and neuronal toxicity of unlabelled multiwalled carbon nanotubes as a function of surface charge. <i>Nanoscale</i> , 2019, 11, 22054-22069.	5.7	30
152	Mapping the Origins of Luminescence in ZnO Nanowires by STEM-CL. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 386-392.	4.7	30
153	Electrochemical Processing of Discrete Single-Walled Carbon Nanotube Anions. <i>ACS Nano</i> , 2013, 7, 1769-1778.	14.9	29
154	Understanding the Dispersion and Assembly of Bacterial Cellulose in Organic Solvents. <i>Biomacromolecules</i> , 2016, 17, 1845-1853.	5.5	29
155	Nacre-nanomimetics: Strong, Stiff, and Plastic. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26783-26791.	8.2	28
156	Applying a potential difference to minimise damage to carbon fibres during carbon nanotube grafting by chemical vapour deposition. <i>Nanotechnology</i> , 2017, 28, 305602.	2.6	28
157	Understanding and controlling the covalent functionalisation of graphene. <i>Dalton Transactions</i> , 2020, 49, 10308-10318.	3.3	28
158	Local Structure and Polar Order in Liquid <i>N</i> -Methyl-2-pyrrolidone (NMP). <i>Journal of Physical Chemistry B</i> , 2018, 122, 8963-8971.	2.7	27
159	Deconvolution of the structural and chemical surface properties of carbon nanotubes by inverse gas chromatography. <i>Carbon</i> , 2012, 50, 3416-3421.	10.4	26
160	Influence of Alkali Metals (Na, K, and Cs) on CO ₂ Adsorption by Layered Double Oxides Supported on Graphene Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11610-11618.	3.7	26
161	Translocation of Functionalized Multi-Walled Carbon Nanotubes across Human Pulmonary Alveolar Epithelium: Dominant Role of Epithelial Type 1 Cells. <i>ACS Nano</i> , 2016, 10, 5070-5085.	14.9	26
162	Carboxylation of multiwalled carbon nanotubes reduces their toxicity in primary human alveolar macrophages. <i>Environmental Science: Nano</i> , 2016, 3, 1340-1350.	4.2	26

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